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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/564,212	06/16/2006	Thomas Sebastian	10191/4100	7505
26646 7590 12/31/2008 KENYON & KENYON LLP			EXAMINER	
ONE BROADY		REIS, RYAN ALEXANDER		
NEW YORK, NY 10004			ART UNIT	PAPER NUMBER
			3752	
			MAIL DATE	DELIVERY MODE
			12/31/2008	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)				
Office Action Symmetry	10/564,212	SEBASTIAN, THOMAS				
Office Action Summary	Examiner	Art Unit				
	RYAN REIS	3752				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1)⊠ Responsive to communication(s) filed on <u>14 O</u>	ctober 2008					
<i>7</i> —	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
,	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
closed in accordance with the practice under Ex parte Quayle, 1933 C.D. 11, 403 C.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>9,11 and 13-22</u> is/are pending in the a	∑ Claim(s) <u>9,<i>11 and 13-22</i> is/are pending in the application</u> .					
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>9, 11 and 13-22</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	r election requirement.					
Application Papers						
9) ☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)	4)					
3) Information Disclosure Statement(s) (PTO/SB/08) 5) Notice of Informal Patent Application						
Paper No(s)/Mail Date 6) Other:						

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DETAILED ACTION

1. In the amendment filed on 10/14/2008, applicant has cancelled claims 10 and 12. Therefore, claims 9, 11 and 13-22 are now pending in the application and addressed below.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 9 and 13-16 are rejected under 35 U.S.C. 102(b) as being anticipated by US Patent 5,335,863 to DeGrace (DeGrace).

As to claim 9, DeGrace discloses a fuel injector comprising: a solenoid coil (20); a tubular support (30) acting as an inner pole of the solenoid coil; and a filter element (38) affixed on an outer contour of the tubular support; wherein the outer contour of the tubular support includes grooves (58); wherein the tubular support includes a shoulder (below groove 58) on a discharge side of the grooves; and wherein the shoulder extends radially outward beyond outer edges of the grooves (shoulder extends radially outward below groove 58).

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As to claim 13, DeGrace discloses the filter element rests against the shoulder (see Figures 2 and 5).

As to claims 14-16, DeGrace discloses an extension sleeve (34'; see Figures 4-7) surrounding the exterior of the filter element, wherein the extension sleeve has an inner diameter that is slightly smaller than an outer diameter of the filter element, whereby a press-fit between the filter element and the tubular support is achieved by the extension sleeve (see column 3, lines 52-68; see also claim 3).

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 11 and 17-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over US Patent 5,335,863 to DeGrace.

As to claim 11, DeGrace does not expressly disclose machine cutting the grooves with the aid of a form steel.

However, machine cutting with steel is well known in the art for making grooves as desired.

Therefore, it would have been obvious to one having ordinary skill in the art at the time of applicant's invention to have made the grooves in the tubular support my machine cutting with the aid of a form steel since the method of machine cutting is well known in the art and does not create a structural difference from the cited prior art.

As to claims 17-21, DeGrace discloses the filter element includes a cup-shaped filter (see Figures 2 and 4). DeGrace does not expressly disclose the filter being made of a cloth material and a glass fiber plastic extrusion coat.

However, applicant admits in the specification (page 2, lines 23-26), "The filter element is able to be manufactured **like conventional filter elements**, in the shape of a cup and made from cloth material and a fiber glass plastic extrusion coat." (*emphasis added*)

Therefore, it would have been obvious to one having ordinary skill in the art at the time of applicant's invention to have made the filter of a cloth material and a glass fiber plastic extrusion coat according to the conventional means.

As to claim 22, DeGrace as modified in the rejections above discloses a method for installing a fuel injector, the fuel injector having a solenoid coil, a tubular support acting as an inner pole of the solenoid coil, and a filter element affixed on an outer contour of the tubular support, the method comprising the steps of: producing the filter element, the filter element including a cup-shaped filter having a cloth material; extrusion-coating the filter element with a glass fiber plastic extrusion coat; providing

grooves in the outer contour of the tubular support, the tubular support including a shoulder on a discharge side of the grooves, and the shoulder extending radially outward beyond outer edges of the grooves; mounting the filter element onto the outer contour of the tubular support; mounting an extension sleeve on an outer contour of the filter element, an inner diameter of the extension sleeve being slightly smaller than an outer diameter of the filter element; and compressing the glass fiber plastic extrusion coat of the filter element into the grooves in the outer contour of the tubular support, using mounting pressure applied by the extension sleeve.

Response to Arguments

6. Applicant's arguments with respect to claims 9, 11 and 13-22 have been considered but are most in view of the new ground(s) of rejection.

Conclusion

7. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the

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shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

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- 8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to RYAN REIS whose telephone number is (571)270-5060. The examiner can normally be reached on Monday through Friday 8:00am to 6:00pm EST.
- 9. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Len Tran can be reached on (571) 272-1184. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.
- 10. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/RR/ Examiner, Art Unit 3752 /Len Tran/ Supervisory Patent Examiner, Art Unit 3752